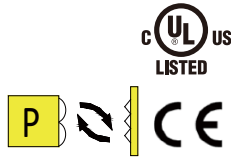


## Product Description:

- High performance small square type photoelectric sensor, standard mounting aperture 25.4mm ,3m polarizing mirror reflection
- Suitable for logistics, photovoltaic, lithium, AGV and other industries

## Product features:

- The brightness and darkness of the beam can be adjusted, Adjustable detection distance
- IP67 protection rating



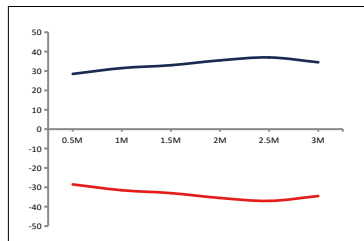
| Type                            | Distance | Beam          | Output | Connection  | Wiring |
|---------------------------------|----------|---------------|--------|-------------|--------|
| OS10S-RPCN6/AP *M <sup>1)</sup> | 3m       | Red LED 630nm | NPN    | Cable       | Fig.1  |
| OS10S-RPCP6/AP *M <sup>1)</sup> | 3m       | Red LED 630nm | PNP    | Cable       | Fig.2  |
| OS10S-RPCN6Q8/AP                | 3m       | Red LED 630nm | NPN    | M8 Connetor | Fig.3  |
| OS10S-RPCP6Q8/AP                | 3m       | Red LED 630nm | PNP    | M8 Connetor | Fig.4  |

Note 1): \* M refers to the cable length in meters. If there is no \* M in the model, the default cable length is 2 meters.

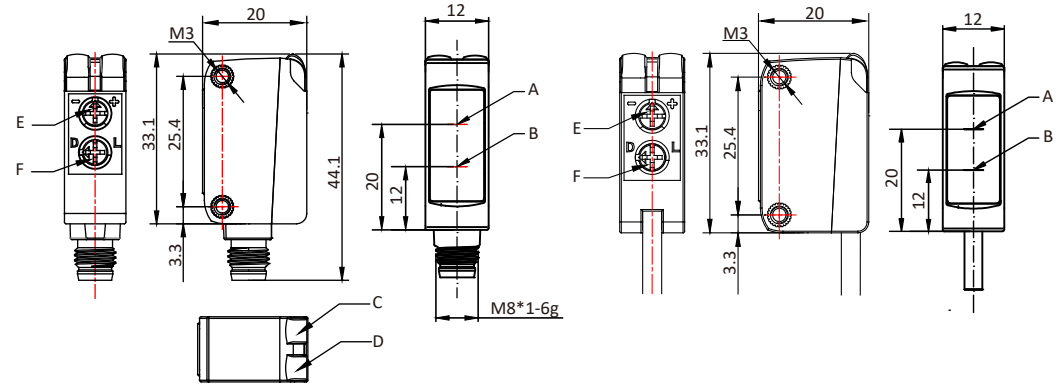
## TECHNICAL SPECIFICATION

|                                  |                     |                               |                                                                             |
|----------------------------------|---------------------|-------------------------------|-----------------------------------------------------------------------------|
| OPERATING VOLTAGE                | 10...30VDC          | AMBIENT TEMPERATURE OPERATION | -20°C...+60°C                                                               |
| LIGHT SOURCE TYPE                | Red LED             | AMBIENT TEMPERATURE STORAGE   | -40°C...+70°C                                                               |
| OUTPUT CHARACTERISTIC            | PNP/NPN             | UL TEMPERATURE                | 50°C                                                                        |
| LOAD CURRENT                     | ≤100mA              | CIRCUIT PROTECTION            | Short-circuit protection, Reverse polarity protection, Over-load protection |
| SWITCHING FREQUENCY              | 800Hz               | PROTECTION DEGREE             | IP67                                                                        |
| ADJUSTMENT OF OPERATING DISTANCE | Adjust              | HOUSING MATERIAL              | PC+PBT,Glass                                                                |
| SWITCH MODE                      | Light On or Dark on | CONNECTING TYPE               | PVC cable /M8 connector                                                     |
| Non-detection zone               | ≤60mm               |                               |                                                                             |

## PARALLEL MOVEMENT CHARACTERISTIC CURVE



## DIMENSIONS

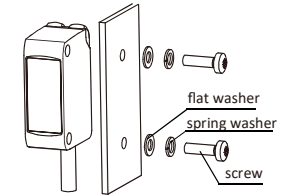


## INDICATORS

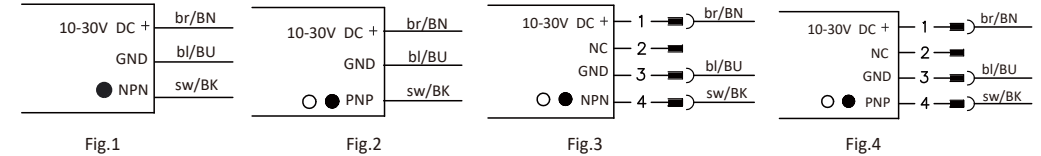
|   |                          |              |
|---|--------------------------|--------------|
| A | Receiver                 |              |
| B | Emitter                  |              |
| C | Output indicator         | Yellow       |
| D | Power indicator          | Green        |
| E | Distance adjustment knob |              |
| F | Switch mode setting      | L.O. or D.O. |

## INSTALL

Recommended to use M3\*0.5 screw for fastening  
Tightening torque≤0.5N m

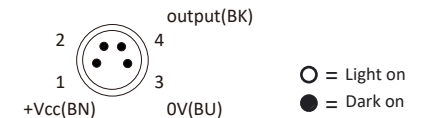


## ELECTRICAL CONNECTION



## SAFETY PRECAUTIONS

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>⚠ DANGER</b> | This product is for the purpose of object detection only.Do not use this product for the purpose of protecting human body or human body parts.This product should not be used as an explosion-proof product.Do not use this product in dangerous places or in the environment of potentially explosive gases. Failure to use the control or adjustment device or perform the steps in accordance with this regulation may result in harmful radiation exposure.<br>Ce produit est à des fins de détection d' objets seulement.N' utilisez pas ce produit dans le but de protéger le corps humain ou des parties du corps humain.Ce produit ne doit pas être utilisé comme produit antidéflagrant.Ne pas utiliser ce produit dans des endroits dangereux ou dans l' environnement de gaz potentiellement explosifs. La non-utilisation du dispositif de commande ou de réglage ou l' exécution des étapes conformément au présent règlement peut entraîner une exposition aux rayonnements nocifs. |
| <b>⚠ WARN</b>   | This product is a sensor with DC power supply.Please do not apply AC power supply.If AC voltage applied,the product may explode or catch fire.<br>Ce produit est un capteur avec alimentation cc.Veuillez ne pas appliquer d' alimentation en courant alternatif.En cas de tension,le produit peut exploser ou prendre feu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>NOTICE</b>   | Do not use the same wiring with the power cord and high-voltage line,otherwise the mainmodule may fail or be damaged due to noise.When using a commercially available switching regulator,be sure to ground the housingground terminal and the ground terminal. Please do not use this product outdoors.<br>N'utilisez pas le même câblage avec le cordon d'alimentation et la ligne à haute tension,sinon le module principal peut tomber en panne ou être endommagé en raison du bruit.Lorsque vous utilisez un régulateur de commutation disponible dans le commerce,assurez-vous de mettre à la terre le terminal d'habitation et le terminal de terre.Veuillez ne pas utiliser ce produit à l'extérieur.                                                                                                                                                                                                                                                                                     |



## MAINTAIN

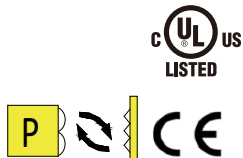
Disassemble;please return to ELCO

## 产品说明:

- 高性能小型光电传感器, 标准安装孔径25.4mm, 3m偏振镜反
- 适用于物流运输、光伏、锂电、AGV等行业

## 产品特点:

- 亮暗通可调,检测距离可调节
- IP67防护等级



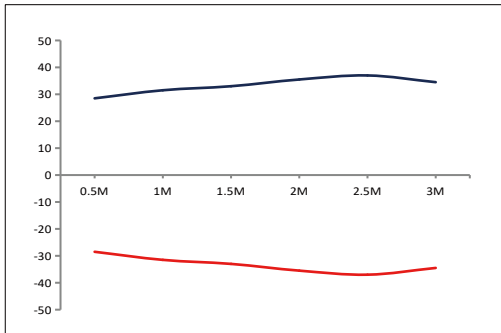
| 型号                              | 检测距离 | 光源       | 输出方式 | 连接方式   | 接线图 |
|---------------------------------|------|----------|------|--------|-----|
| OS10S-RPCN6/AP *M <sup>1)</sup> | 3m   | 红光 630nm | NPN  | 线缆     | 图1  |
| OS10S-RPCP6/AP *M <sup>1)</sup> | 3m   | 红光 630nm | PNP  | 线缆     | 图2  |
| OS10S-RPCN6Q8/AP                | 3m   | 红光 630nm | NPN  | M8 连接器 | 图3  |
| OS10S-RPCP6Q8/AP                | 3m   | 红光 630nm | PNP  | M8 连接器 | 图4  |

注1): \*M表示线缆长度, 单位米, 型号中无\*M默认线缆长度为2米。

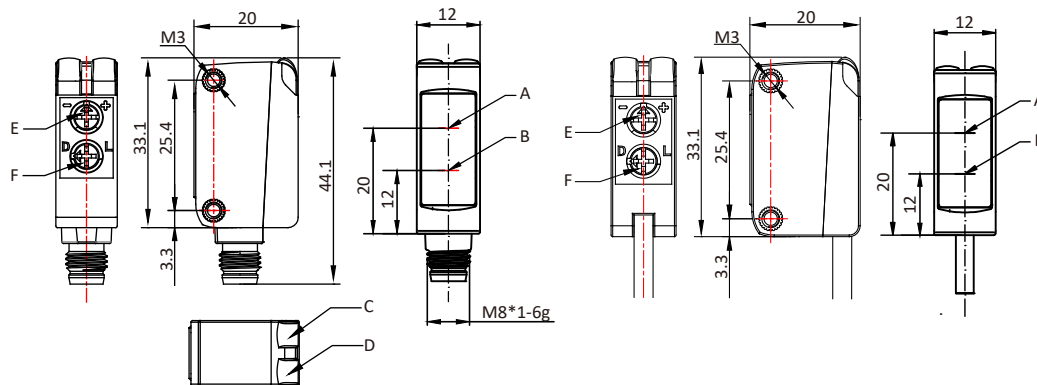
## 技术参数

|        |            |      |                       |
|--------|------------|------|-----------------------|
| 工作电压   | 10...30VDC | 工作温度 | -20°C...+60°C         |
| 光源     | 红光LED点光源   | 环境温度 | -40°C...+70°C         |
| 输出特性   | PNP/NPN    | UL温度 | 50°C                  |
| 负载电流   | ≤100mA     | 保护电路 | 短路保护<br>反极性保护<br>过载保护 |
| 开关频率   | 800Hz      | 防护等级 | IP67                  |
| 检测距离调节 | 可调节        | 外壳   | PC+PBT, Glass         |
| 开关模式设置 | 亮通/暗通      | 连接方式 | PVC线缆<br>/4-pinM8 连接器 |
| 盲区     | ≤60mm      |      |                       |

## 平移特性曲线



## 外形尺寸

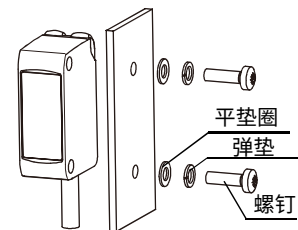


## 操作指示

## 安装

|   |         |       |
|---|---------|-------|
| A | 接收端     |       |
| B | 发射端     |       |
| C | 输出指示灯   | 黄色    |
| D | 电源稳态指示灯 | 绿色    |
| E | 距离调节旋钮  |       |
| F | 开关模式设置  | 亮通/暗通 |

建议使用M3\*0.5螺钉紧固, 拧紧力矩≤0.5N.m



## 接线图

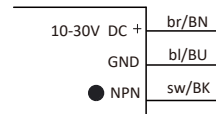


图1

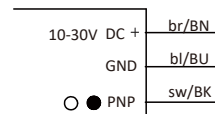


图2

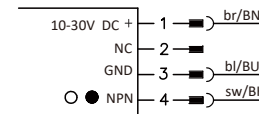


图3

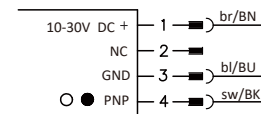
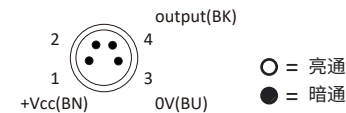


图4

## 安全防护措施

|      |                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▲ 危险 | <ul style="list-style-type: none"><li>● 本产品仅供目标物检测之用, 请勿将本产品用于保护人体或人体部位等目的。</li><li>● 本产品不得作为防爆产品使用, 请勿在危险场所或潜在爆炸气体的环境中使用本产品。</li><li>● 若不按规定使用控制或调整装置、或执行各步操作, 就可能引起有害的辐射照射。</li></ul> |
| ▲ 警告 | <ul style="list-style-type: none"><li>● 本产品是采用直流供电的传感器, 请勿施加交流电源, 如果施加交流电压, 则可能导致产品爆炸或起火。</li></ul>                                                                                     |
| 注意   | <ul style="list-style-type: none"><li>● 请勿与电源线和高压线使用同一配线, 否则可能因噪声导致主模块发生故障或受损。</li><li>● 使用市面所售的开关稳压器时, 请务必将壳体接地端子和接地端子接地。</li><li>● 请勿在室外使用本产品。</li></ul>                              |



## 维修

禁止客户拆解产品, 请返厂维修